

The New Student Vision for 21st Century Education

Enabled, Engaged, Empowered

Project
Tomorrow



Speak Up



Speak Up 2010 National and Texas State Findings

**Invitation to
Speak Up 2011!**

Julie Evans, Project Tomorrow CEO – November 30, 2011

Today's Discussion: The Big Questions

- ▶ What are the **expectations of K-12 students** for 21st century learning?
- ▶ How does that student vision **compare with the teachers' & administrators' reality**?
- ▶ What is the unique **parent perspective** on 21st century learning?
- ▶ How well are today's **K-12 schools meeting the expectations** of students?
- ▶ How can you **better understand the views** of your key stakeholders?

Discussion Agenda:

- **Speak Up National Research Project**
- **Student Vision for 21st Century Education**
- **Perspectives of Educators & Parents**
- **Participating in Speak Up 2011**
- **Audience Q&A**

Speak Up National Research Project

▶ Annual national research project

- Online surveys + focus groups
- Open for all K-12 schools and schools of education
- Institutions receive free report with their own data

▶ Collect ideas ↔ Stimulate conversations

- K-12 Students, Teachers, Parents, Administrators
- Pre-Service Teachers in Schools of Education

▶ Inform policies & programs

- Analysis and reporting of findings and trends
- Consulting services to help transform teaching and learning

Speak Up survey question themes



- **Learning & Teaching with Technology**
- **21st Century Skills: Digital Citizenship**
- **Science and Math Instruction**
- **Career Interests in STEM and Teaching**
- **Professional Development / Teacher Preparation**
- **Internet Safety**
- **Administrators' Challenges**
- **Emerging Technologies in the Classroom**
 - *Mobile Devices, Online Learning, Digital Content*
 - *Educational Games, Web 2.0 tools and applications*
- **Designing the 21st Century School**

Speak Up National Research Project

- ▶ **Empowering authentic voices – since 2003:**
 - 1.9 million K-12 students
 - 180,000 teachers and librarians
 - 124,000 parents
 - 15,500 school and district leaders
 - 30,000 K-12 schools – from all 50 states, DC, American military base schools, Canada, Mexico, Australia, int'l schools . . .

2.2 million respondents

Many thanks to our K-12 National Champion Outreach Partners:



Big thank you to:



Inviting all Texas schools & districts to participate in Speak Up 2011!



New online surveys for students,
parents & educators open for input:

October 10 - December 23

Data back to schools & districts:

February 2012

**Learn more at
www.tomorrow.org**



*Enable, engage, empower your
stakeholder voices!*

Voices of K-12 Stakeholders Speak Up 2010



Activities, Attitudes & Aspirations

Disconnects & Differences

Trends & Leverage Points

National Speak Up 2010 Participation: 379,355

| | |
|----------------------------------|---------------|
| ✓ K-12 Students | 294,399 |
| ✓ Teachers | 35,525 |
| ✓ Librarians | 2,135 |
| ✓ Parents (in English & Spanish) | 42,267 |
| ✓ School/District Administrators | 3,578 |
| ✓ Technology Leaders | 1,391 |
| ✓ Schools / Districts | 6,541 / 1,340 |

Top 12 participating states:

TX, CA, AL, AZ, FL, NC, IL, MD, IN, NV, PA, WI

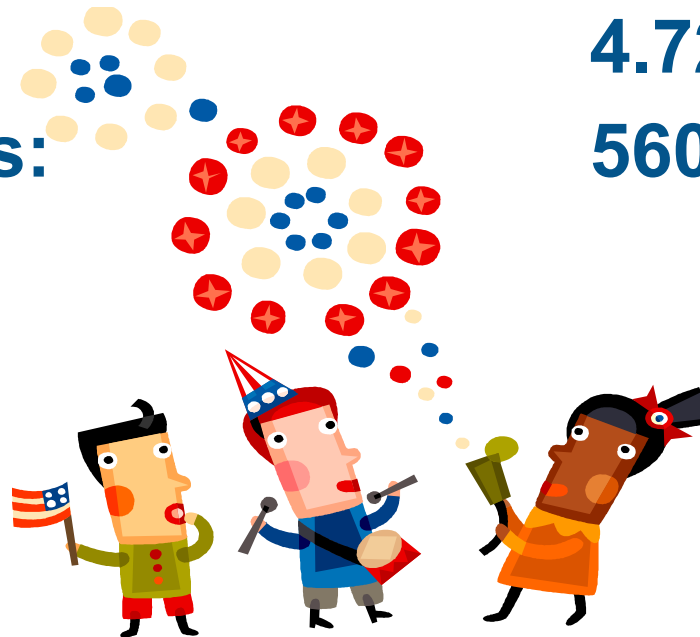
About Speak Up participating schools:

- 51% Title I eligible – indicating community poverty
- 34% urban, 29% suburban, 37% rural

Texas Speak Up 2010 Participation

2010

| | |
|-----------------------------------|---------------|
| K-12 Students: | 48,729 |
| Teachers & Librarians: | 6,683 |
| Parents: | 4,724 |
| Administrators: | 560 |





Speak Up 2010 National Findings
Two national releases in Washington DC
April 1 and May 11, 2011



The New 3 E's of Education: Enabled, Engaged, Empowered

*Report #1: How today's students are leveraging
emerging technologies for learning*

*Report #2: How today's educators are advancing a
new vision for teaching and learning*

***What can the Speak Up
findings tell us about the
future of learning?***

Key Findings: Speak Up 2003 – 2010

- ▶ Students function as a “**Digital Advance Team**”
- ▶ Students regularly **adopt and adapt** emerging technologies for learning
- ▶ Students’ **frustrations** with the unsophisticated use of technologies within education
- ▶ **Lack of relevancy** in education exacerbated
- ▶ **Persistent digital disconnect between students and adults**

What can the Speak Up data tell us about the future of learning?

- ✓ **Student vision for tech use mirrors desires for learning in general**
- ✓ **Educators have potential to enable, engage and empower this new learning vision**
- ✓ **By examining the synergies and the disconnects we can develop a shared vision for the future of learning**

Let's set some context

What issues are “waking up” Texas administrators in the middle of the night?



Achievement measured by test scores

Closing achievement gap

Funding

Staff morale/motivation

Student behavior

School safety

Serving diverse populations

Communications with parents

Adequate technology

Texas parents' top concerns about their child's school



Too much emphasis on tests

Classes are too big

Not enough funding

Course material is not engaging

Teacher or administrator quality

Technology is not used effectively

Selected Texas student views on their education

| | |
|---|------------|
| “I am succeeding academically” | 41% |
| “I know what I need to study more” | 46% |
| “I wish my classes were more interesting” | 52% |
| “I am motivated because I like school” | 26% |
| “I am motivated to please my parents/teachers” | 44% |
| “My parents are <u>very</u> involved in my education” | 28% |
| “I know how to be safe online” | 48% |

Result:

A new uniquely “student vision”
for leveraging emerging
technologies to drive achievement
and educational productivity

Creating Our Future: Students Speak Up about their Vision for 21st Century Learning



Social-based learning
Un-tethered learning
Digitally-rich learning

The New 3 E's of Education: Enabled, Engaged, Empowered



Key Trends:

- **Mobile Learning**
- **E-Textbooks and Digital Content**
- **Online Learning**

The New 3 E's of Education: Enabled, Engaged, Empowered

Key Trends: Mobile Learning



Texas students and their mobile devices

Personal Access to Mobile Devices: Texas Students

| Device | K-2 | Gr 3-5 | Gr 6-8 | Gr 9-12 |
|--------------------------------------|-----|--------|------------|------------|
| Cell phone (without internet access) | 20% | 27% | 50% | 50% |
| Smart phone | 18% | 21% | 41% | 53% |
| Laptop | 39% | 44% | 62% | 74% |
| MP3 | 36% | 56% | 80% | 86% |
| Tablet device (iPad) | 9% | 9% | 17% | 19% |

Students face obstacles using technology at school

Top responses from Texas students:

- 1. School filters and firewalls block websites I need (72%)**
- 2. I cannot use my mobile device (54%)**
3. Teachers limit our technology use (45%)
4. Can't access my communications tools (45%)
5. Too many rules! (38%)

How schools could make it easier for you to use technology



Texas students say:

1. **Allow greater access to websites I need (81%)**
2. **Let me use my own mobile device (59%)**
3. Give me unlimited Internet access on campus (46%)
4. Let me use my own laptop (45%)
5. I want to access my social networking site and communications tools (44%)
6. Provide classwork and resources online (38%)
7. Let me recharge my devices (35%)

TX Students – Grades 6-8: How would you use your mobile device to help you with schoolwork?



1. To increase effectiveness of school:

| | TX | Nat' l |
|-------------------------------|-----|--------|
| Check grades | 67% | 69% |
| Take notes for class | 61% | 61% |
| Access online textbooks | 49% | 48% |
| Learn about school activities | 41% | 41% |
| Send an email to a classmate | 35% | 34% |

TX Students – Grades 6-8: How would you use your mobile device to help you with schoolwork?



2. To leverage capabilities for greater impact:

| | TX | Nat'l |
|-----------------------------------|-----|-------|
| Anytime, anywhere research | 65% | 64% |
| Collaborate with peers & teachers | 46% | 47% |
| Organize schoolwork/assignments | 44% | 29% |
| Record lectures/labs | 37% | 37% |
| Create and share documents | 34% | 35% |

Administrators' perspectives on mobile devices within learning

- ▶ **85% of Texas administrators** say that the greatest benefit to using mobile devices:
 - **increases student engagement in school and learning**

Let's ask the administrators:

**How likely are you this year to allow
students to use their own mobile devices
for instructional purposes at school?**

How likely are you this year to allow students to use their own mobile devices for instructional purposes at school?

Texas Administrators say:

Likely
24%

Unlikely
56%

So, what prevents you from allowing students to use their own devices at school?

Texas Administrators say:

1. Concerns about theft (51%)
2. Concerns about network security (50%)
3. Teachers are not trained (47%)
4. Digital equity issues (43%)
5. Internet safety and district liabilities (42%)
6. Devices could be distraction (42%)

Parents' turn:

If your child's school allowed it and it would be used for educational purposes, would you purchase a mobile device for their child to use at school?

Would parents purchase a mobile device for their child to use at school?

Texas Parents say:

Likely
69%

Unlikely
8%

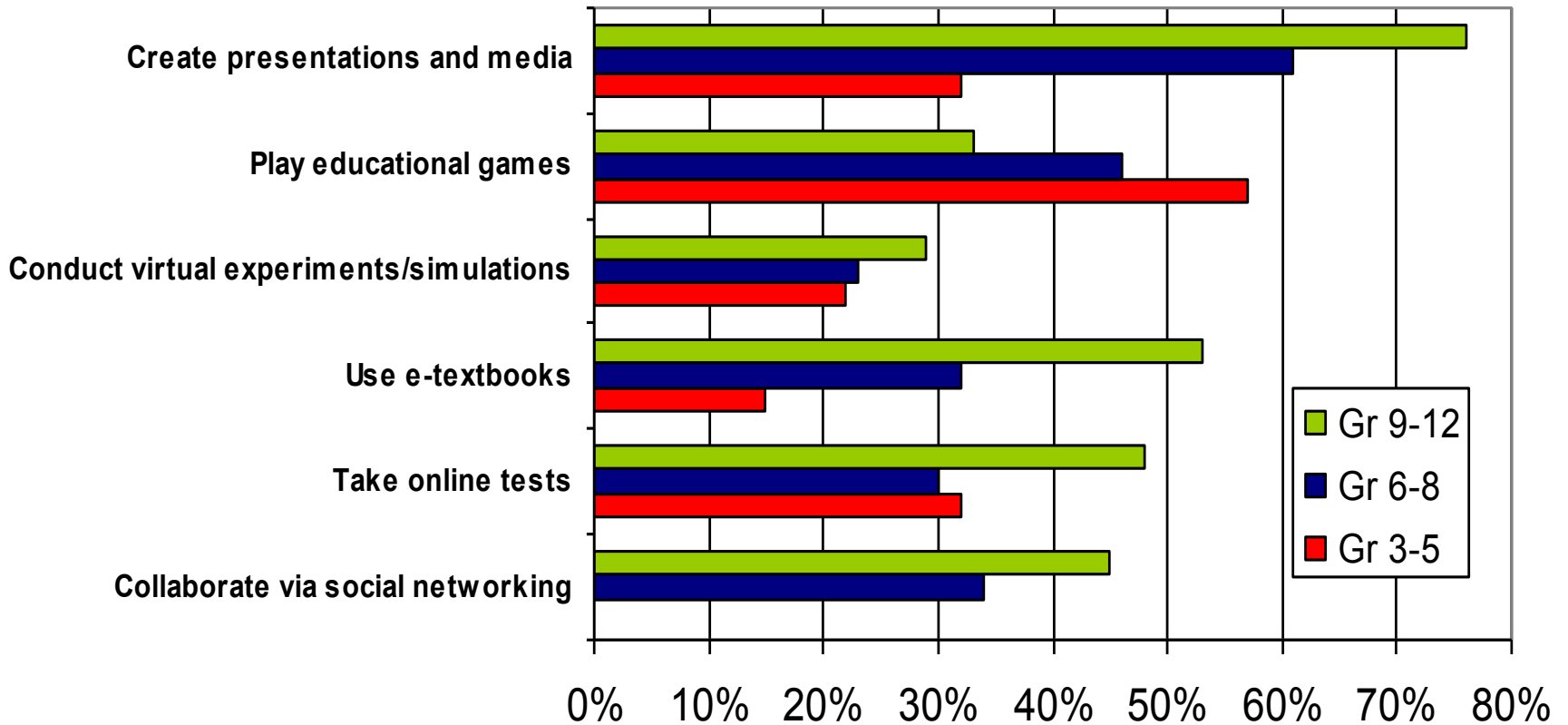
The New 3 E's of Education: Enabled, Engaged, Empowered

Key Trends: E-Textbooks & Digital Content



Inside today's classroom in Texas

How Students are Using Digital Content for Schoolwork



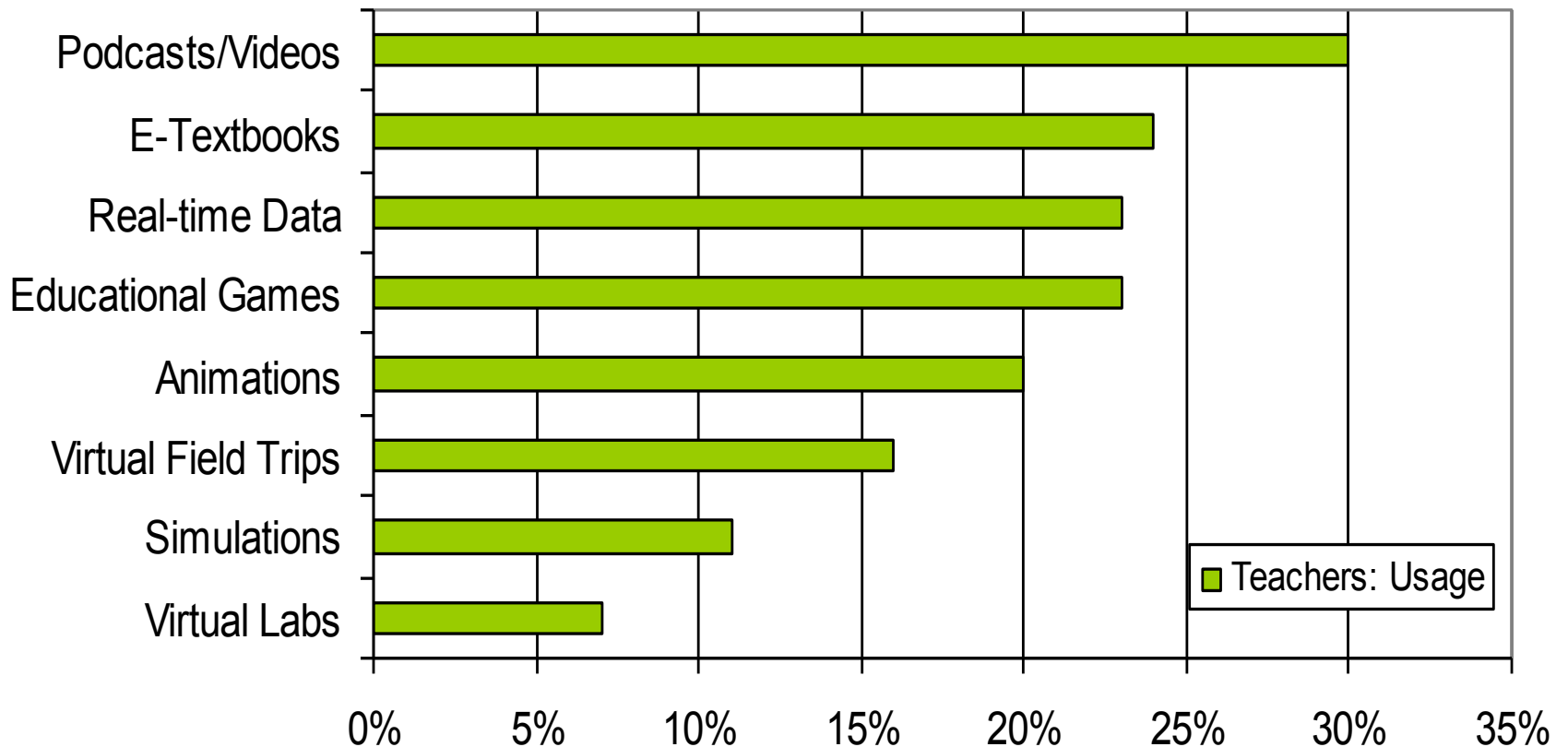
Best use of technology – in what class?

Texas high school students say:

- | | |
|----------------------------------|------------------|
| 1. English / Language Arts: 61% | (National = 57%) |
| 2. Science: 59% | (National = 45%) |
| 3. Social Studies / History: 56% | (National = 38%) |
| 4. Math: 48% | (National = 36%) |

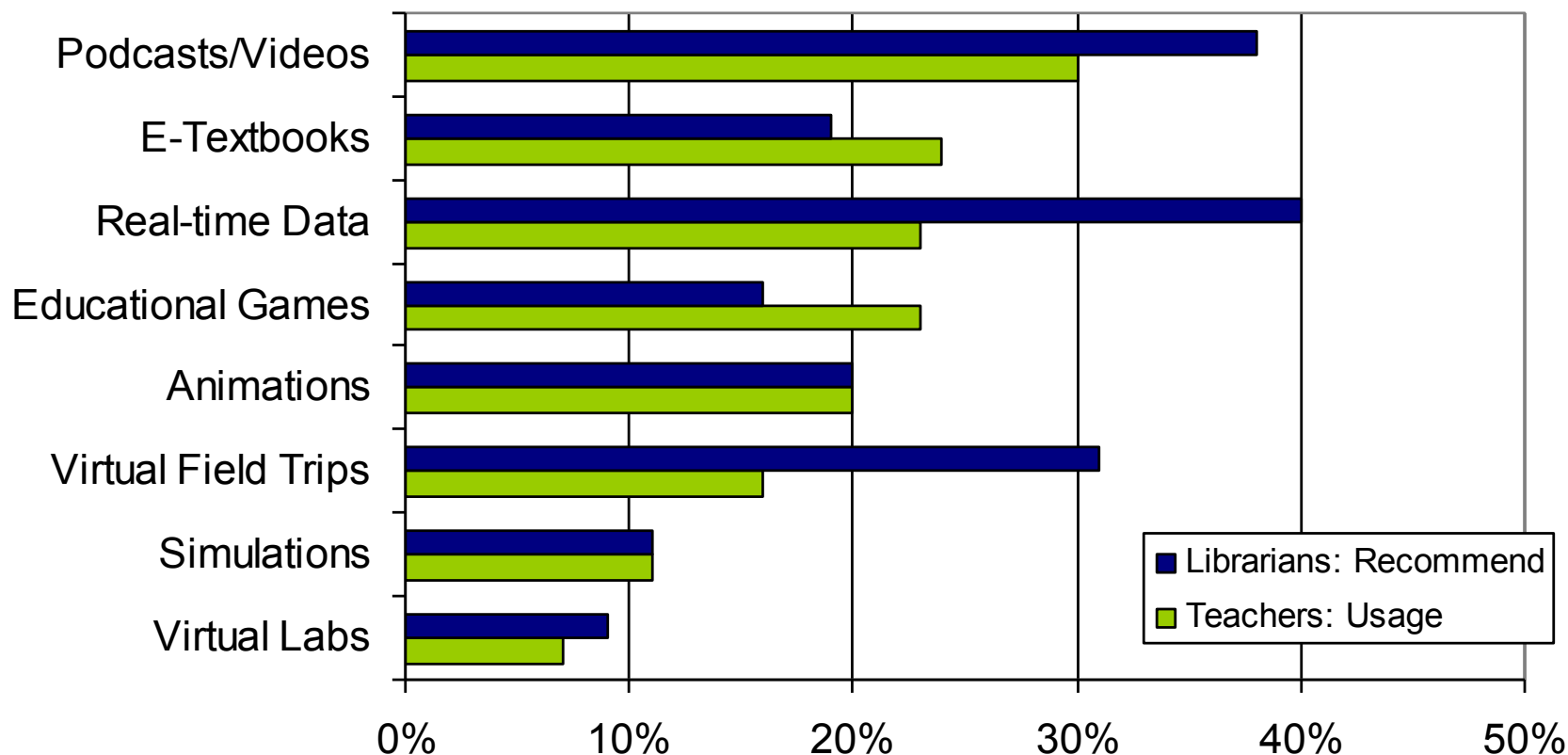
Inside today's classroom: teachers' view

Digital Content in the Classroom



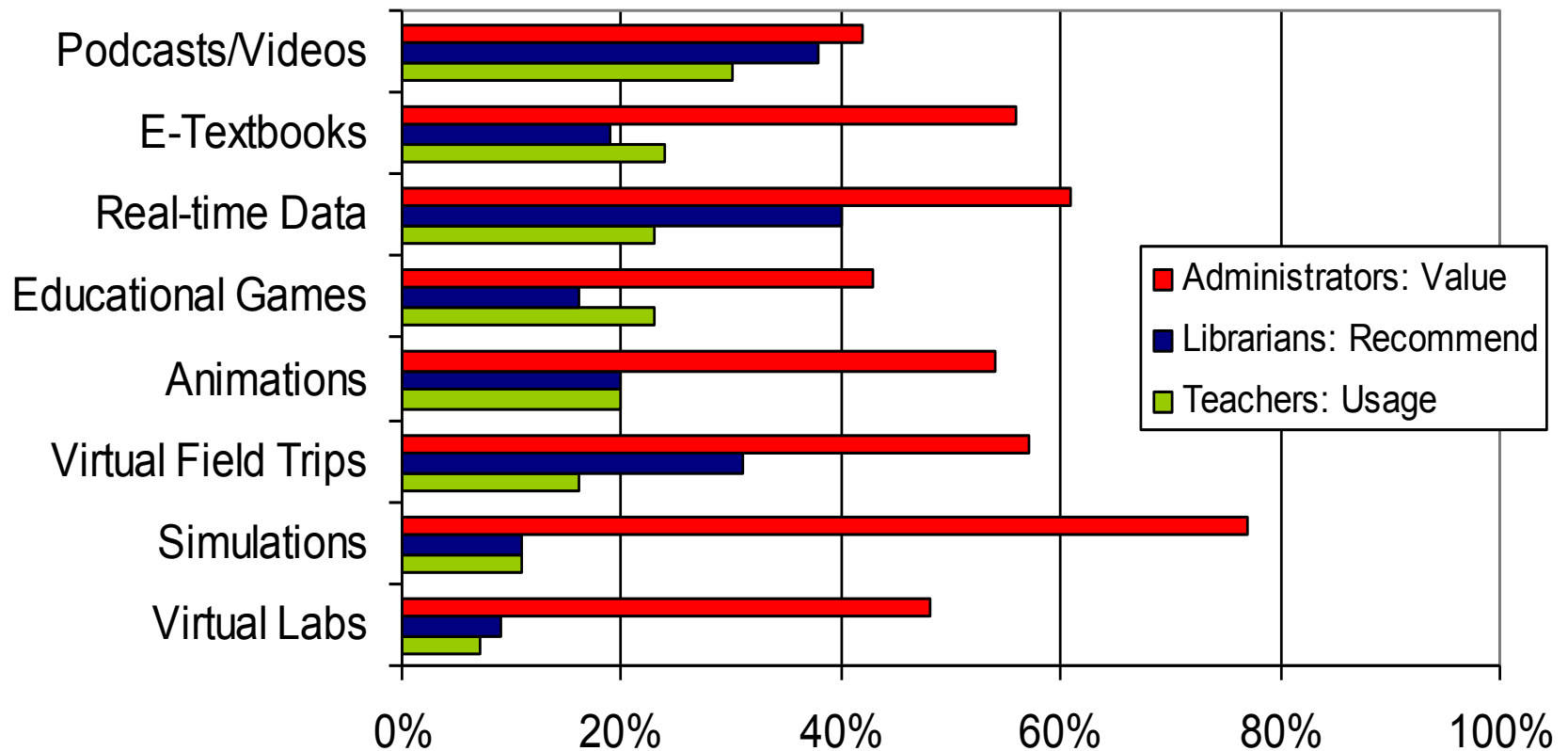
Inside today's classroom: teachers + librarians

Digital Content in the Classroom



Inside today's classroom: add administrators

Digital Content in the Classroom



Barriers to implementing more digital content in classrooms

Texas Administrators say:

- | | | |
|----|-----------------------------------|-----|
| 1. | Providing technology access | 50% |
| 2. | How to evaluate quality | 38% |
| 3. | Teacher skill concerns | 34% |
| 4. | Legal concerns | 29% |
| 5. | Need content aligned to standards | 29% |

What is most important when evaluating quality of digital content?

TX Administrators say:

1. Student achievement (64%)
2. Teacher evaluation (52%)
3. Created by teachers (42%)
4. Certified by ed assoc (36%)
5. Conference demo (31%)
6. State ed dept list (31%)



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TX Teachers say:

1. Created by teachers (55%)
2. Colleague referral (51%)
3. Teacher evaluation (42%)
4. Certified by ed org (38%)
5. Student achievement (36%)
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Parents: How do you determine quality for digital resources they bring into their home?

| Quality Factors | Texas Parents |
|---|---------------|
| 1. My child finds the tools engaging | 66% |
| 2. Aligned to my child' s curriculum | 64% |
| 3. Recommended by my child' s teacher, school librarian or other educator | 60% |
| 4. My child' s teacher is using the same tools in the classroom | 56% |
| 5. My child is doing better in school after using similar tools | 48% |
| 6. Aligned to content standards (state or national) | 38% |
| 7. Our school purchased a license for the tools and allows home access | 38% |
| 8. Developed by an organization with expertise in the field | 38% |
| 9. Student achievement results | 36% |
| 10. Developed by a classroom teacher | 36% |

What if

We asked students to design the ultimate digital or e-textbook?

What features and functionality would they desire?

Students' desires for the features and functionality of digital or e-textbooks

Three themes emerge from the data:

- **Students want interactivity and relevancy**
- **They want tools to facilitate collaboration**
- **They want ways to personalize learning**

Students' desires for the features and functionality of digital or e-textbooks

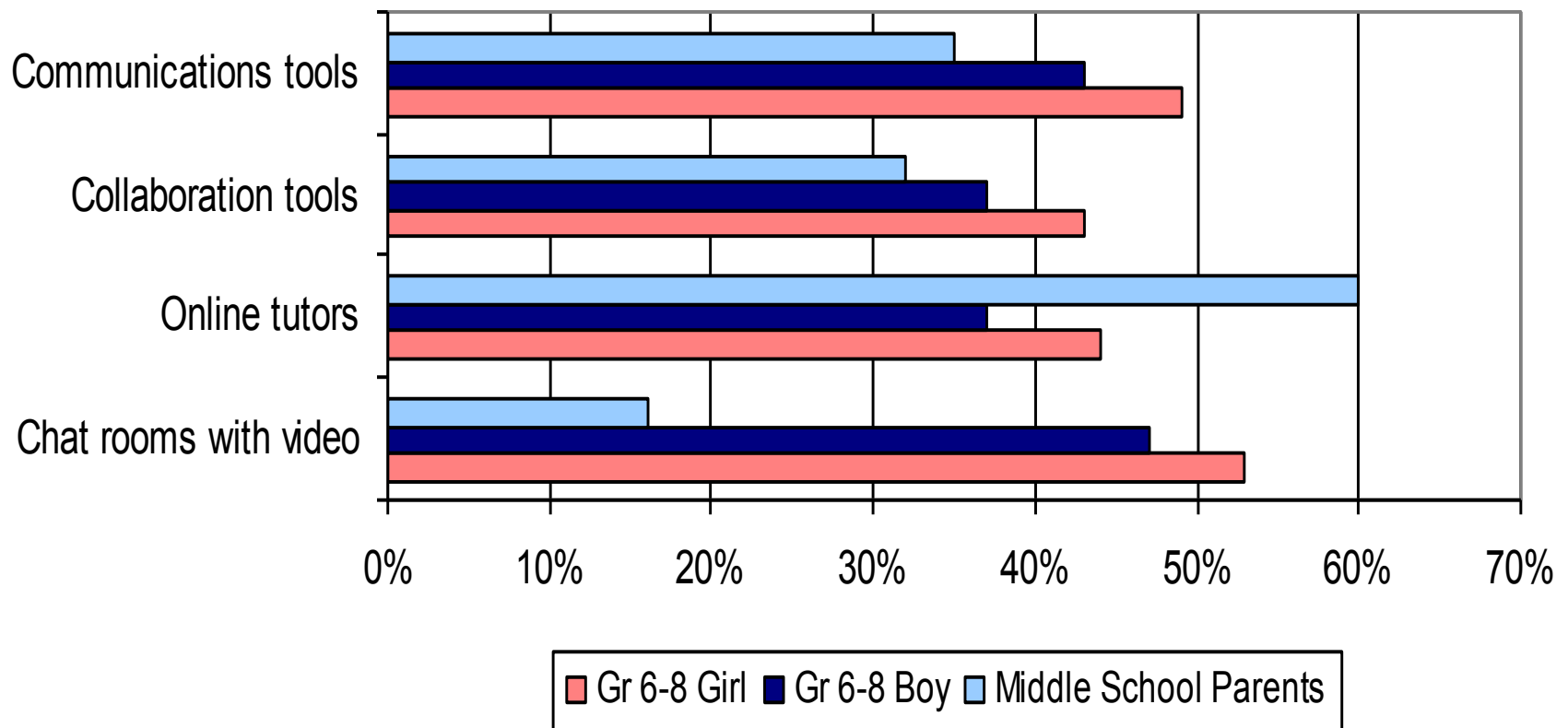
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**E-textbook as proxy for the student vision
for a new learning paradigm:
social, un-tethered and digitally rich**

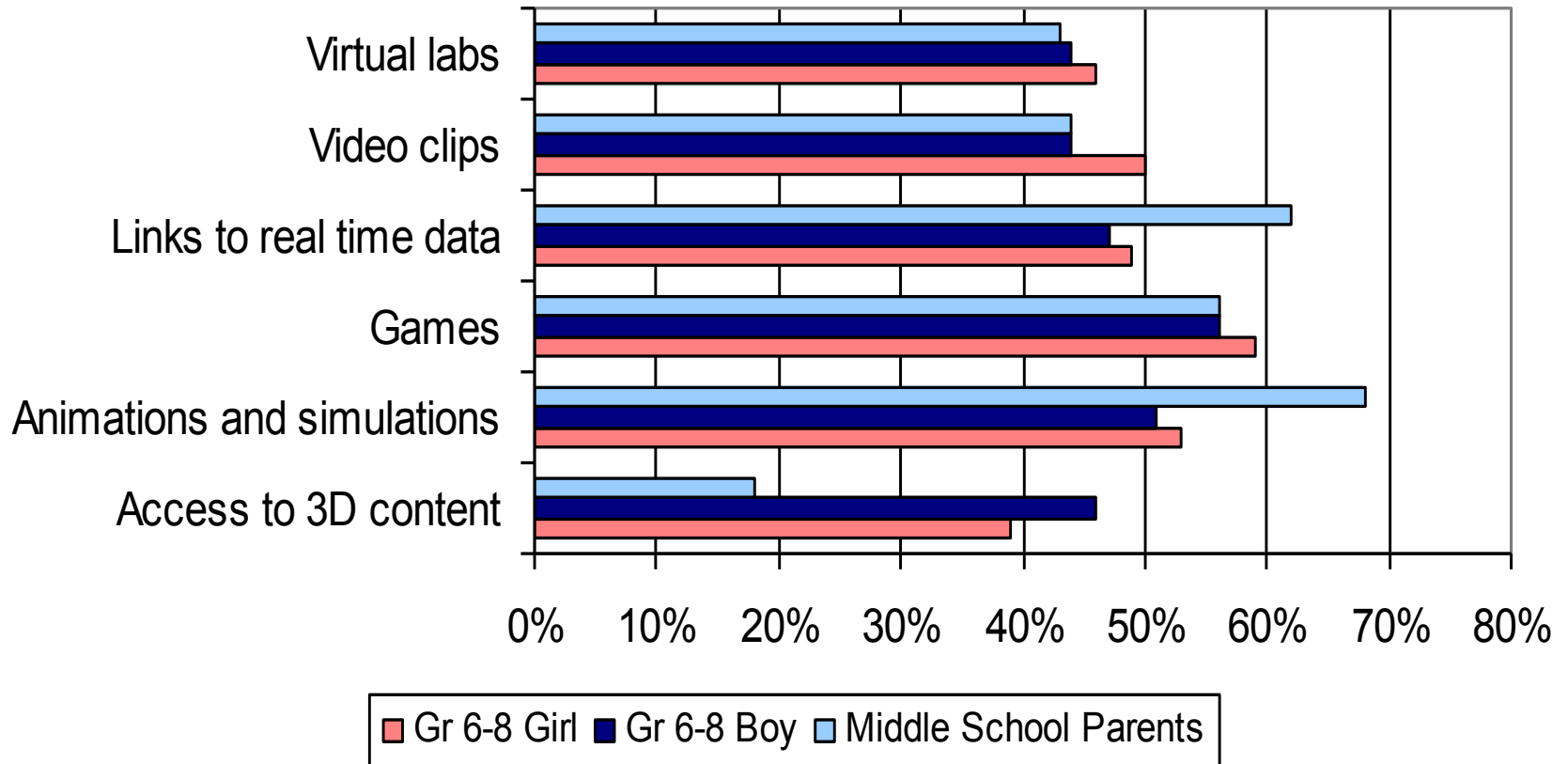
Designing the Ultimate E-Textbook

Social-based Learning Enabled by the E-Textbook



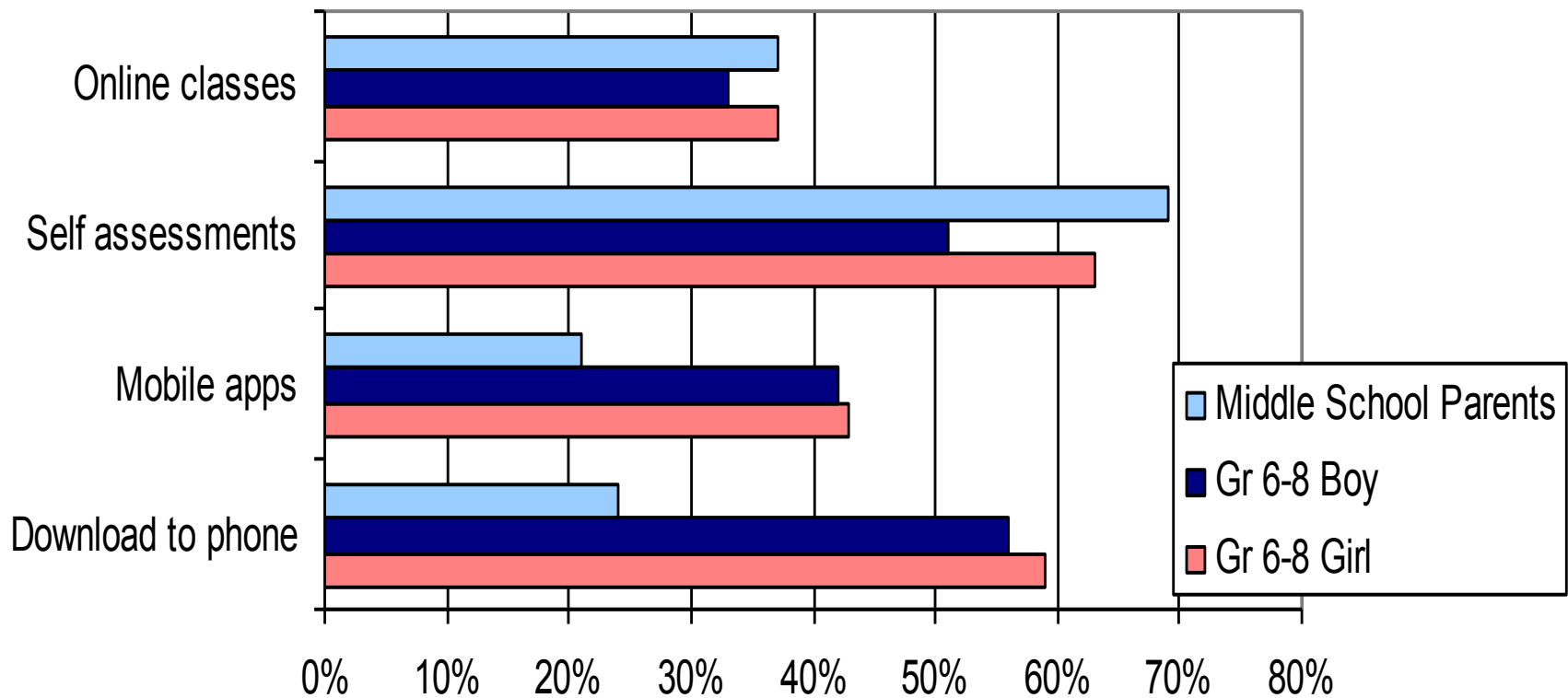
Designing the Ultimate E-Textbook

Empowering Digitally-rich Content through the E-Textbook



Designing the Ultimate E-Textbook

Engaging Un-tethered Learning with the E-Textbook



The New 3 E's of Education: Enabled, Engaged, Empowered

Key Trends: Online Learning



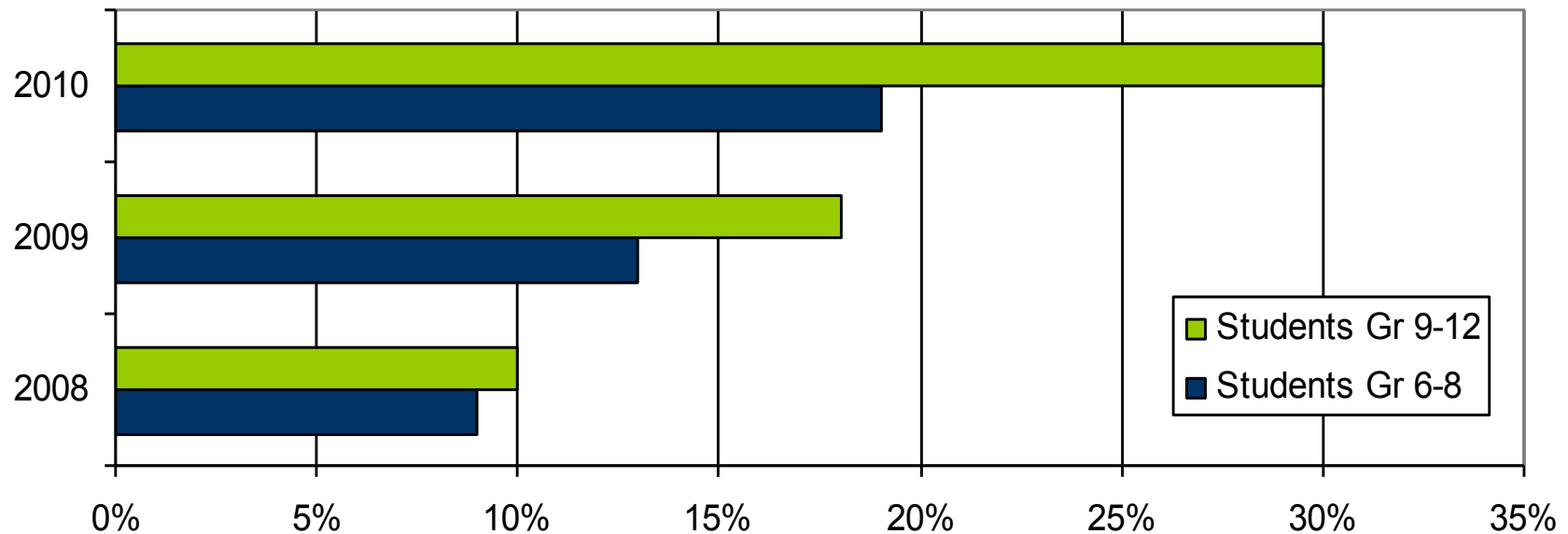
Administrators:

Who is your audience for online learning?

| Audience | 2008 | 2010 |
|----------------------------------|------|------|
| Administrators | 21% | 36% |
| Teachers | 49% | 53% |
| Traditional students | 24% | 40% |
| Home-schooled students | 5% | 13% |
| Students in continuation schools | 3% | 18% |
| At risk students | 10% | 16% |

Who is learning online?

Growth in student experiences with academic online learning



Includes:

- Online class taught by a teacher
- Self-study online class
- Blended class environment

What is the unmet demand for online learning?

If you have not taken an online class, would you like to?

| | | |
|-------------|-------------------------------|------------|
| Yes! | TX Students in Gr 3-5 | 33% |
| | TX Students in Gr 6-8 | 35% |
| | TX Students in Gr 9-12 | 45% |

What would you recommend as a good investment to enhance student achievement?

33% of TX parents say “online classes”

Why take an online class?

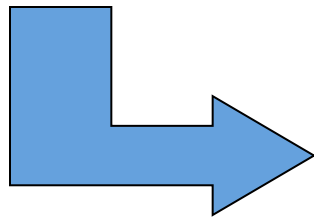
For high school students, traditional reasons:
scheduling and college credit.

For middle school students, it's about changing the
learning paradigm.

Why take an online class?

For high school students, traditional reasons: scheduling and college credit.

For middle school students, it's about changing the learning paradigm.



- Get extra help in a tough subject
- More comfortable asking questions
- In control of my own learning
- More motivated to learn
- Work at my own pace
- Review class materials whenever I want
- Share ideas with my classmates

TX students say they face barriers in accessing online classes

“I don’t know about the classes offered at my school” (38%)

“My school does not offer online classes” (33%)

“I don’t know how to sign up for online classes” (27%)

“I don’t know how to find information about online classes” (27%)

TX teachers & online professional development

Preferred PD methodology:

| | |
|--------------------------|-----|
| Conference workshops | 68% |
| School/district training | 48% |
| Online classes | 29% |
| School PLCs | 29% |
| School study groups | 26% |

Texas Teachers:

- 18% have taken an online class for PD
- 29% would like to take an online class for PD

Creating Our Future: Students Speak Up about their Vision for 21st Century Learning



Social-based learning
Un-tethered learning
Digitally-rich learning

Today's Discussion: The Big Questions

- ▶ What are the **expectations of K-12 students** for 21st century learning?
- ▶ How does that student vision **compare with the teachers' & administrators' reality**?
- ▶ What is the unique **parent perspective** on 21st century learning?
- ▶ How well are today's **K-12 schools meeting the expectations** of students?

The use of technology in schools today

Do you agree with this statement?

**“My school is doing a good job
of using technology to
enhance learning and student
achievement.”**

“My school is doing a good job of using technology to enhance learning and student achievement.”

Yes!

- 74% of high school teachers
- 72% of high school principals
- 62% of parents of high school aged children

“My school is doing a good job of using technology to enhance learning and student achievement.”

Yes!

- 74% of high school teachers
- 72% of high school principals
- 62% of parents of high school aged children

But only 48% of TX high school students agree!

What is the bottom line?

Today's students
want learning that is:

Enabled

Engaging

Empowered



More Speak Up? www.tomorrow.org

- ▶ National Speak Up Findings and reports
- ▶ Additional data analysis from Speak Up 2010
- ▶ Presentations, podcasts and webinars
- ▶ Evaluation services
- ▶ Reports and white papers
- ▶ **Participate in Speak Up 2011!**



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Speak Up 2011: Why do districts participate?

- Collect unique data from stakeholders (69%)
- As input to create vision for 21st century learning (67%)
- To conduct needs assessment (62%)
- To inform technology initiatives (53%)
- To inform district's strategic plan (49%)

88% would recommend Speak Up to a colleague

Speak Up 2011: Why do districts participate?

Our Speak Up results are indispensable in technology planning in our school district and give us data to support innovation.

Alabama Administrator

For students, it gives them a chance to participate in a public policy conversation and allows their voices to be heard. For teachers, it provides a great conversation starter to better understand their students. For school administrators and district leaders it provides important information for future planning.

Texas Administrator

The staff at Conway Middle has used the results to shape their school improvement plans, their Title I school plan and to develop a strategic school technology plan. They have used the results to develop and deliver instruction, professional development and community programs to support, promote and increase access to technology.

North Carolina Administrator

Speak Up survey question themes



- **Learning & Teaching with Technology**
- **Math Instruction**
- **Career Interests in STEM and Teaching**
- **Professional Development / Teacher Preparation**
- **Internet Safety**
- **Administrators' Challenges**
- **Emerging Technologies in the Classroom**
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- **Designing the 21st Century School**

Speak Up 2011: New Question Topics

- **Funding for education technology**
- **Online assessments**
- **Print vs. digital reading comprehension**
- **Technology, arts and creativity**
- **BYOT implementations**
- **and more**

Speak Up 2011: How to participate

- 1. Schools & districts register to participate**
- 2. Pick a password for stakeholders to use to access online surveys**
- 3. Promote to parents and staff – we provide materials**
- 4. Provide way for students to take online surveys**
- 5. We provide you with a weekly survey count**
- 6. Schools & districts get access to local survey results + national data for benchmarks in early February**
- 7. Have a voice in state and national policy**

Texas Speaks Up!



| | 2010 | 2011* |
|------------------------|--------|--------|
| K-12 Students: | 48,729 | 29,994 |
| Teachers & Librarians: | 6,683 | 3,123 |
| Parents: | 4,724 | 1,229 |
| Administrators: | 560 | 271 |

*** As of Tuesday, 11/29**

Texas Speaks Up!

District Recommendations

2011 Goals

| | |
|-----------------------------------|------------|
| K-12 Students: | 25% |
| Teachers & Librarians: | 50% |
| Parents: | 25% |
| Administrators: | 50% |

Speak Up 2011: Need help?



Jenny Hostert
Program Support Coordinator
949-609-4660 x12
jhostert@tomorrow.org

Kim Brodie
Outreach Consultant
916-832-3497
kbrodie@tomorrow.org

Thank you.
Let's continue this conversation.

Julie Evans
Project Tomorrow
jevans@tomorrow.org
949-609-4660 x15
Twitter: JulieEvans_PT

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